

CLAIMS

1. A method for fabricating a microlens array comprising:

a first step of bringing a lens side of a microlens array substrate having a plurality of lenses formed thereon into close contact with a flat surface of a master plate, in which one surface is said flat surface, with a light transmitting layer precursor therebetween;

a second step of curing said light transmitting layer precursor to form a light transmitting layer; and

a third step of releasing said master plate from said light transmitting layer.

2. The method for fabricating the microlens array according to claim 1 further comprising a step of forming at least one of a black matrix, an electrode, and an alignment layer on said light transmitting layer.

3. The method for fabricating the microlens array according to claim 1 further comprising a step of depositing a protective coating on said light transmitting layer.

4. The method for fabricating the microlens array according to claim 3 further comprising a step of forming at least one of a black matrix, an electrode, and an alignment layer on said protective coating.

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5. The method for fabricating the microlens array according to any one of claims 1 to 4, wherein said light transmitting layer precursor includes a substance which can be cured by applying energy.

6. The method for fabricating the microlens array according to claim 5, wherein said energy is at least one of light and heat.

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7. The method for fabricating the microlens array according to any one of claims 1 to 6, wherein said light transmitting layer precursor is made of a resin.

8. A microlens array fabricated by the method according to any one of claims 1 to 7.

9. An optical device having the microlens array according to claim 8.

10. The optical device according to claim 9, wherein the optical device is a display device having a light source for radiating light toward said microlens array.

11. The optical device according to claim 9, wherein the optical device is an imaging device having an image pick-up device that light focussed by said microlens array enters.

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